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(54) Title: IMPROVEMENTS IN NUCLEIC ACID SEQUENCING

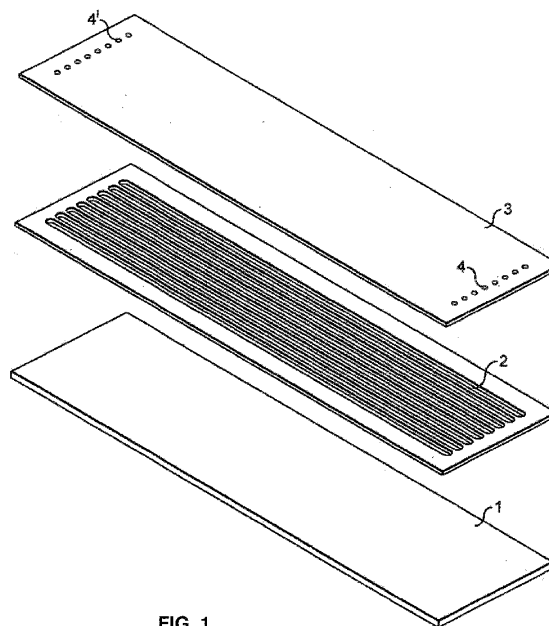


FIG. 1

(57) Abstract: A method of preparing templates for high throughput nucleic acid sequencing, comprising: a) providing a solid support, wherein said solid support comprises a plurality of nucleic acid primers immobilised adaptor nucleic acid sequences which hybridise to one or more of the nucleic acid primers, and the library preparation having a nucleic acid concentration of 400 pM or less; c) allowing single stranded fragments of template nucleic acid to bind to said nucleic acid primers, thereby immobilising said single stranded fragments on said solid support; and d) repeating steps b) and c) at least three further times, i.e. multiple loadings or rounds of template hybridization to improve occupation rates, e.g., of nanowells on a flow cell.

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